EVALUATION COM.

27 Feb

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## 9. <u>Co-Channel Interference</u> (pp 12,32)

The level of interference at the threshold of visibility (TOV) was determine for the NTSC+ and for the conventional NTSC to determine if there were different.

The results showed that the Co-channel interference to the video created by both systems is the same as the one created by conventional NTSC.

Tests were also done for the audio and as expected the sound is more robust than the video.

### 10. Adjacent Changel Interference (pp. 12,32)

The level of interference at the threshold of visibility (TOV) was determine for the NTSC+ and for the conventional NTSC to determine if there were different.

The results showed that Upper adjacent channel interference created by both systems is the same as the one created by conventional NTSC.

Lower adjacent channel interference is lower than the one created by conventional NTSC by 2.28 dB for Digideck and by 0.95 dB by WavePhore. These differences are not significant considering the subjective nature of the test.

Tests were also done for the audio an as expected the sound is more robust than the video.

# 11. Bit Error Rate Performance

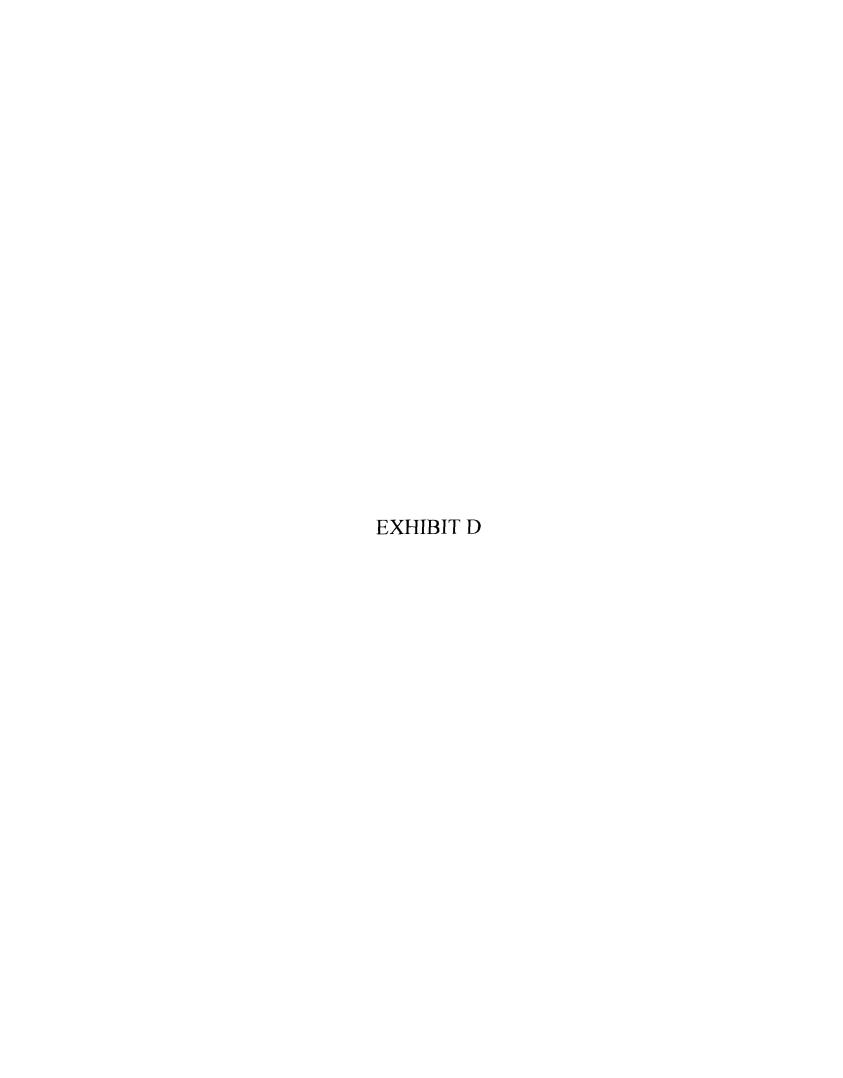
The bit error rate performance of both systems was measured against random noise (See first part of section 12), impulsive noise (see second part of section 12) and multipath (see section 15-16).

#### 12. Immunity to Noise

Random Noise (pp. 13, 33)

The level of noise for a BER of 10<sup>-5</sup> was measured as well as the BER for +2, +1, -1 and -2 dB around the level of noise for this threshold of 10<sup>-5</sup>

Both systems behave as expected around threshold. The carrier to noise ratio for a BER=10<sup>-5</sup> was 28 dB for Digideck and 44 dB for WavePhore. The difference of 16 dB in favor of Digideck is significant.



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	[	Audio	Name	Condition	Test	] IN	OUT	IN	OUT	IN	OUT	. IN	OUT
	劉	DI		R-T		(hh:mm:ss)							
		D2		I-R R-I		ļ							
نداند داند	7	D4		T-R		1							
(C)	1		50% Grey			<b></b>							
	44.1		Flower Garden	T-R	Data On	00:01:00	00:01:10	00:01:13	00:01:23	00:01:26	00:01:36	00:01:39	00:01:49
	-		TSN Baseball	R-T	Data On	00:01:52	00:02:02	00:02:05	00:02:15	00:02:18	00:02:28	00:02:31	00:02:41
दिया पर्व		T3	Bus/Truck	T-R	Data Off	00:02:44	00:02:54	00:02:57	00:03:07	00:03:10	00:03:20	00:03:23	00:03:33
والأرابية		14	Red Rock	R-T	Data Off	00:03:36	00:03:46	00:03:49	00:03:59	00:04:02	00:04:12	00:04:15	00:04:25
Went Le	15	15	Mobile & Calendar	T-R	Data On	00:04:28	00:04:38	00:04:41	00:04:51	00:04:54	00:05:04	00:05:07	00:05:17
Trical	_1	16	Bus/Truck	T-R	Data Off	00:05:20	00:05:30	00:05:33	00:05:43	00:05:46	00:05:56	00:05:59	00:06:09
Trial	_2	<b>T7</b>	TSN Baseball	1-12	Data Off	00:06:12	00:06:22	00:06:25	00:06:35	00:06:38	00:06:48	00:06:51	00:07:01
Trial	3	18	Dances with Wolves	T-R	Data On	00:07:04	00:07:14	00:07:17	00:07:27	00:07:30	00:07:40	00:07:43	00:07:53
Trial	4	T9	Mobile & Calendar	R-T	Data Off	00:07:56	00:08:06	00:08:09	00:08:19	00:08:22	00:08:32	00:08:35	00:08:45
Triot	5	т10	Flower Garden	R-T	Data On	00:08:48	00:08:58	00:09:01	00:09:11	00:09:14	00:09:24	00:09:27	00:09:37
Trial	6	m	TSN Baseball	1-12	Data On	00:09:40	00:09:50	00:09:53	00:10:03	00:10:06	00:10:16	00:10:19	00:10:29
Trial	7	T12	Bus/Truck	R-T	Data On	00:10:32	00:10:42	00:10:45	00:10:55	00:10:58	00:11:08	00:11:11	00:11:21
Triol	В	T13	Red Rock	R-T	Data Off	00:11:24	00:11:34	00:11:37	00:11:47	00:11:50	00:12:00	00:12:03	00:12:13
Triol	9	T14	Dances with Wolves	R-T	Data Off	00:12:16	00:12:26	00;12:29	00:12:39	00:12:42	00:12:52	00:12:55	00:13:05
Tilal	10	T15	Mobile & Calendar	T-R	Data Off	00:13:08	00:13:16	00:13:21	00:13:31	00:13:34	00:13:44	00:13:47	00:13:57
Trial	11	T16	Flower Garden	T-R	Data On	00:14:00	00;14:10	00:14:13	00:14:23	00:14:26	00:14:36	00:14:39	00:14:49
Trial	12	117	Red Rock	R-T	Data On	00:14:52	00:15:02	00:15:05	00:15:15	00:15:18	00:15:28	00:15:31	00:15:41
Trial	13	T 18	Bus/Truck	T-R	Data On	00:15:44	00:15:54	00:15:57	00:16:07	00:16:10	00:16:20	00:16:23	00:16:33
Trial	14	T19	Dances with Wolves	T-R	Data Off	00:16:36	00:16:46	00:16:49	00:16:69	00:17;02	00:17:12	00:17:15	00:17:25
Trial	15	120	Rower Garden	T-R	Data Off	00:17:28	00:17:38	00:17:41	00:17:51	00:17:54	00:18:04	00:18:07	00:18:17
Trial	16	T21	TSN Baseball	R-T	Data Off	00:18:20	00:18:30	00:18:33	00:18:43	00:18:46	00:18:56	00:18:59	00:19:09
Trial	17	T22	Bus/Truck	R-T	Data Off	00:19:12	00:19:22	00:19:25	00:19:35	00:19:38	00:19:48	00:19:51	00:20:01
Trial	18	T23	Mobile & Calendar	T-R	Data On	00:20:04	00:20:14	00:20:17	00:20:27	00:20:30	00:20:40	00:20:43	00:20:53
Trial	19	124	Dances with Wolves	R-T	Data On	00:20:56	00:21:06	00:21:09	00:21:19	00:21:22	00:21:32	00:21:35	00:21:45
Trial	20	T25	Red <u>Rock</u>	T-R	Data On	00:21:48	00:21:58	00:22:01	00:22:11	00:22:14	00:22:24	00:22:27	00:22:37
Trial	21	T26	Flower Galden	R-T	Data Off	00:22:40	00:22:50	00:22:53	00:23:03	00:23:06	00:23:16	00:23:19	00:23:29
Trial	22	T27	Mobile & Calendar	R-1	Data On	00:23:32	00:23:42	00:23:45	00:23:55	00:23;68	00:24:08	00:24:11	00:24:21
Triol	23	T28	TSN Baseball	R-T	Data On	00:24:24	00:24:34	00:24:37	00:24:47	00:24:50	00:25:00	00:25:03	00:25:13
Trial	24	T29	Red Rock	T-R	Data Off	00:25:16	00:25:26	00:25:29	00:25:39	00:25:42	00:25:52	00:25:55	00:26:05

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	ſ	Audlo	Name	Condition	Test	או {	OUT	IN	OUT	IN	OUT	IN	оит
e cemo	圆	DI				(hh:mm:ss)							
30 Jano	2	D2		<del> </del>	<b> </b>	1							
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er.			50% Grey			1							
		1)	Flower Garden	T-R	Data On	00:30:00	00:30:10	00:30:13	00:30:23	00:30:26	00:30:36	00:30:39	00:30:49
Weinige.		T2	ISN Baseball	R-T	Data On	00:30:52	00:31:02	00:31:05	00:31:15	00:31:16	00:31:28	00:31:31	00:31:41
		13	Bus/Truck	T-R	Data Off	00:31:44	00:31:54	00:31:57	00:32:07	00:32:10	00:32:20	00:32:23	00;32:33
			Red Rock	R-T	Data Off	00:32;36	00:32:46	00:32:49	00:32:59	00:33:02	00:33:12	00:33:15	00:33:25
Work in	藍	<b>T</b> 5	Mobile & Calendar	T-R	Data On	00:33:28	00:33:38	00:33:41	00:33:51	00:33:54	00:34:04	00:34:07	00:34:17
Trial	_1	16	TSN Baseball	R-1	Data On	00:34:20	00:34:30	00:34:33	00:34:43	00:34:46	00:34:56	00:34:59	00:35:09
Trial	2	17	Flawer Garden	R-T	Data Off	00:35:12	00:35:22	00:35:25	00:35:35	00:35:38	DO:35:48	00:35:51	00:36:01
Trial	3	78	Red Rock	R-T	Data On	00:36:04	00:36:14	00:36:17	00:36:27	00:36:30	00:36:40	00:36:43	00:36:53
Trial	4	19	Dances with Wolves	1-R	Data On	00:36:56	00:37:06	00:37:09	00:37:19	00:37:22	00:37:32	00:37:35	00:37:45
Trial	5	T10	Bus/Truck	T-R	Data On	00:37:48	00:37:58	00:38:01	00:38:11	00:38:14	00:38:24	00:38:27	00:38:37
Trial	6	111	Mobile & Calendar	1-R	Data Off	00:38:40	00:38:50	00:38:53	00:39:03	00:39:06	00:39:16	00:39:19	00;39;29
Trial	7	T12	Red Rock	R-ī	Data Off	00:39:32	00:39:42	00:39:45	00:39:55	00:39:58	00:40:08	00:40:11	00:40:21
Trial	8	113	Dances with Wolves	R-1	Data On	00:40:24	00:40:34	00:40:37	00:40:47	00:40:50	00:41:00	00:41:03	00:41:13
Trial	9	T)4	Flower Garden	R-T	Data On	00:41:16	00:41:26	00:41:29	00:41:39	00:41:42	00:41:52	00:41:55	00:42:05
Trial	10	T15_	TSN Baseball	T-R	Data On	00:42:08	00:42:18	00:42:21	00:42:31	00:42:34	00:42:44	00:42:47	00:42:57
Trial	11	716	Bus/Truck	T-R	Data Off	00:43:00	00:43:10	00:43:13	00:43:23	00:43:26	00:43:36	00:43:39	00:43:49
Trial	12	117	Mobile & Calendar	T-R	Data On	00:43:52	00:44:02	00:44:05	00:44:15	00:44:18	00:44:28	00:44:31	00:44:41
Trial	13	T18	Flower Garden	T-R	Data Off	00:44:44	00:44:54	00:44:57	00:45:07	00:45:10	00:46:20	00:45:23	00:45:33
Trial	14	119	Dances with Wolves	R-T	Data Off	00:45:36	00:45:46	00:45:49	00:45:59	00:46:02	00:46:12	00:46:15	00:46:25
Triol	15	120	TSN Baseball	R-T	Data Off	00:46:28	00:46:38	00:46:41	00:46:51	00:46:54	00:47:04	00:47:07	00:47:17
Trial	16	121	Bus/Truck	R-T	Data Off	00:47:20	00:47:30	00:47:33	00:47:43	00:47:46	00:47:56	00:47:59	00:48:09
Trial	17	T22	Red Rock	T-R	Data On	00:48:12	00:48:22	00:48:25	00:48:35	00:48:38	00:48:48	00:48:51	00:49:01
Trial	18	123	Mobile & Calendar	R-T	Data On	00:49:04	00:49:14	00;49:17	00:49:27	00:49:30	00:49:40	00;49;43	00:49:53
Trial	19	124	TSN Baseball	T-R	Data Off	00:49:56	00:50:06	00:50:09	00:50:19	00;50:22	00:50:32	00:50:35	00:50:45
Trial	20	T25	Flower Garden	T-R	Data On	00:50:48	00:50:58	00:51:01	00:51:11	00:51:14	00:51:24	00:51:27	00:51:37
Trick	21	126	Bus/Truck	R-T	Data On	00:51:40	00:51:50	00:51:53	00:52:03	00:52:06	00:52:16	00:52:19	00:52:29
Trial	22	127	Dances with Wolves	1-R	Data Off	00;52:32	00:52:42	00:52:45	00:52:55	00:52:58	00:53:08	00:53:11	00:53:21
Trial	23	T28	Red Rock	T-R	Data Off	00:53:24	00:53:34	00:53:37	00:53:47	00:53:50	00:54:00	00:54:03	00:54:13
Triol	24	129	Mobile & Calendar	R-T	Data Off	00:54:16	00:54:26	00;54:29	00:54:39	00:54:42	00:54:52	00:54:55	00:65:05

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